PRECAUTIONS FOR PROPER USE OF AIR CONDITIONER

Please observe the following instructions.

1. Operate the Selector Switch to run or stop the unit.
   - Do not use Main Power Switch or Auxiliary Power Switch to operate unit.
2. Do not stick anything into the air outlet or inlet.
   - It is dangerous and it can cause injury or damage.
3. Avoid exposing your body directly to a continuous cool air - flow for long periods.
   - It is not good for your health.
4. Do not pour water on the unit to clean it.
   - It is dangerous and it can cause injury or damage.
   Never use solvents or harsh chemicals when cleaning the unit.
   When the air inlet grill and cabinet are dirty, wipe with luke - warm water (below 104°F or 40°C)
5. Avoid placing any obstacles near the inlet or outlet.
   - If the inlet or outlet is blocked with any obstacle, it may cause damage to the unit.
6. Do not run or stop the unit frequently.
   - If you run or stop the unit more then 4-5 times an hour, it can cause damage to the unit.
7. Wait at least 3 minutes before restarting the unit or in the case of power failure.
   - If you turn on the unit within 3 minutes after power off, this can cause damage to the unit.
8. If the air conditioner is operated without an air filter, dust is not removed from the air, and resultant accumulation in the unit may lead to a failure.
   - Do not forget to install the air filter.
9. The air filter should be cleaned at least once every two weeks.
10. When the unit is cleaned, set the Selector Switch at off position.
    - And then unplug the power plug.
11. Never store gasoline or other flammable liquid near the air conditioner.
    - It is very dangerous.
12. Do not force the controls on the front panel too much.
    - It can cause damage the controls and the unit.
13. Set a comfortable temperature.
    - Very low temperature setting considerably increase power consumption.
14. Be careful to keep room temperature comfortable.
    - Avoid continuous direct air flow on you or a sick person while sleeping.
15. Do not remove the plug by pulling the power cord.
    - Damage to the cord and may cause shock hazard.

TABLE OF CONTENTS

1. INSTRUCTIONS TO END-USERS.....3~4
   . INSTRUCTIONS TO INSTRALLATION
   . INSTRUCTIONS TO OPERATIONS
   . INSTRUCTIONS FOR REMOVAL AND REPAIRS
2. INSTALLATION.....5~8
   . INSTALLATION REQUIREMENTS
   . INSTALLATION HARDWARE
   . INSTALLATION POSITION
   . HOW TO INSTALL
   . IF AC IS BLOCKING BY STORM WINDOW
   . REMOVAL FROM WINDOW
   . CAUTION FOR DISMANTLING THE AIR CONDITIONER
3. NAMES AND FUNCTIONS OF VARIOUS PARTS.....9
   . FEATURES
   . OPERATION PANEL
4. USE OF REMOTE CONTROLLER.....10~11
   . REMOTE CONTROLLER
   . METHOD OF TRANSMISSION
   . POINTS OF ATTENTION IN USING THE REMOTE CONTROLLER
   . REPLACEMENT OF BATTERIES
   . ADJUSTMENT OF AIR DIRECTION
   . ADJUSTMENT OF AIR EXCHANGE
5. METHODS OF MAINTENANCE.....12
   . BEFORE THE OPERATIONAL SEASONS
   . AFTER THE OPERATIONAL SEASONS
   . DURING THE OPERATIONAL SEASONS
6. DIAGNOSIS ON PHENOMENA AND TREATMENTS.....13~14
   . INSPECTION AND TREATMENT PRIOR TO MAINTENANCE

GENERAL SPECIFICATIONS

ITEM \ MODEL	DWC-F0520RLE
POWER SOURCE	AC 115V, 60Hz, SINGLE PHASE
DIMENSIONS	18.6(W) x 12.7(H) x 15.5(D) inch
	473(W) x 322(H) x 393(D) mm
WEIGHT (NET)	46.3 lbs (21 Kg)-Approx.

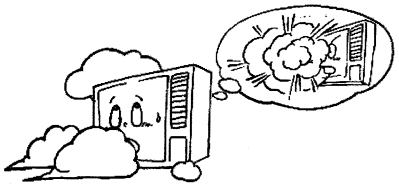
INSTRUCTIONS TO END-USERS

Read this Manual carefully before using the air conditioner to ensure proper operation of the units.

INSTRUCTIONS TO INSTALLATION

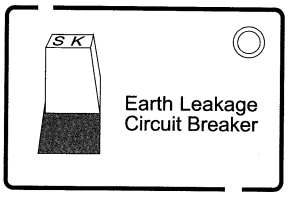
● Make sure that our Co. after-sale service persons or technicians from our Co. or authorized maintenance shops do the installation for you.

Do not install the units at places where there might be leakage of inflammable gases.



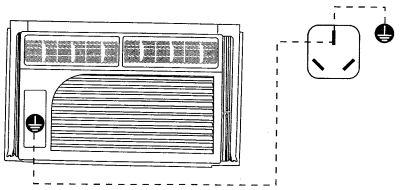
In the case that the gases are leaked out and accumulated around the machine, it might result in fire hazards or other accidents.

Make sure that breaker is installed for safe operations.



If breaker is not installed, it might result in electric shock or other hazards.

Make sure that the power source of the units is properly grounded.



The grounding wire of the air conditioner must be firmly connected to the grounding wire of the power source. Improper grounding will lead to possible electric shock or other hazards.

Usage of power cord(AFCI or LCDI)

Testing:

CASE 1 : Lamp exists

1. Plug into power receptacle.
2. If light is not on, press "RESET" button, light should turn on.
3. Press "TEST" button, light must turn off.
4. Press "RESET" button again for use. Light should turn on. Do not use of above test fails.

CASE 2 : Lamp not exist

1. Plug into power receptacle. Turn on Unit.

2a. If unit operates normally, press "TEST" button. Unit should trip.Press "RESET" button again for use.

2b. If unit not operate, press "RESET" button for use. Unit should operate. Do not use if above test fails.

INSTRUCTIONS TO OPERATIONS

Do not try to stop the operation of the air conditioner by pulling the power cable from the socket.

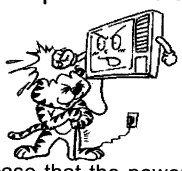
It might result in electric shock, fire hazard or other accidents.

Do not plug the power source cable of the air conditioner to a connecting socket. Prolonged power cable or sharing the same socket is not allowed.

Do not use an extension cord.

It might result in electric shock, overheating, fire hazard or other accidents.

Do not press, stretch, damage, heat or modify the power cable.



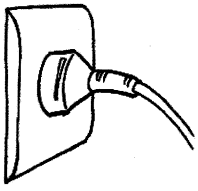
It might result in electric shock, overheating, fire hazard or other accidents. In the case that the power cable is damaged or that a replacement for the power cable is needed due to some other reasons, please ask the our Co. dealer or authorized maintenance people to do the replacement.

Do not operate the power switches of the air conditioner by wet hands.

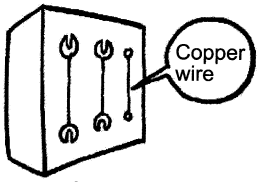
It might lead to electric shock or other hazards.

Make sure that there is no dust on the plug before you plug in the power socket and make sure the plug is well into the socket.

If there is dust on the plug or the plugging is not properly done, it might lead to electric shock, fire hazards or other accidents.



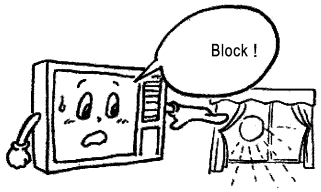
Do not use the fuse with improper capacity or other metal wires.



Improper use of metal wires or copper wires for fuse may result in faulty performances of the machine or fire hazards.

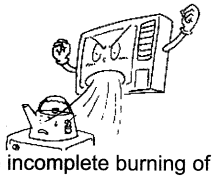
INSTRUCTIONS TO END-USERS

Try as much as possible to avoid the sunlight and warm air from entering the room.



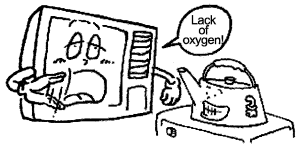
During the cooling operation, window curtains or louver blinds are to be used to shade off the sunlight.

Try to reduce the generation of heat in the room during cooling operations. Place the heating source outside of the room, if possible,do not use burning appliances in the air-conditioned room.



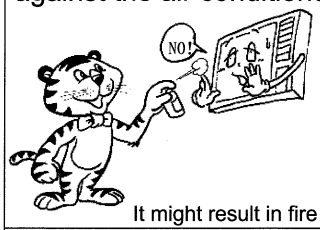
It might lead to the incomplete burning of these appliances.

If the air conditioner and the burning appliances have to be used in the same room, try to get good ventilation of the room.



Insufficient ventilation might lead to the hazard of anoxia.

Do not place such articles as insecticides, paints or other flammable spraying agents near the air conditioner or spray them against the air conditioner.

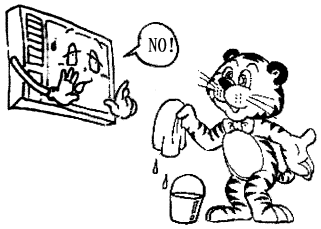


It might result in fire hazards.

Do not insert sticks or other hard objects into the air inlet or outlet.

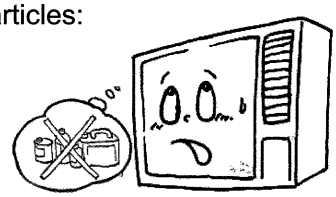
The high-speed rotation of the fan blades may cause accidents.

Do not wash the air conditioner with water.



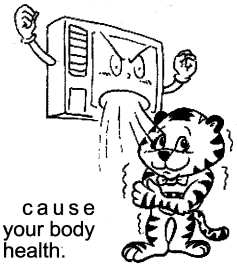
It may cause electric shock or other accidents.

Do not use the following articles:



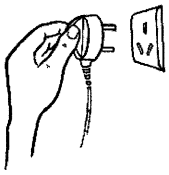
Warm water (above 40°C or 104°F)
Warm water might cause deformation or fading of colors of the air conditioner.
Gasoline, paint diluting agent, benzene and abrasives, etc. may cause deformation or scratches to the air conditioner.

Do not let the delivered air blow to your body directly for long time.



It might cause discomfort of your body or harm your health.

If the air conditioner is not to be used for a long period of time, please pull out the plug from the power source socket to ensure safety.Turn off the air conditioner before pulling out the plug.



INSTRUCTIONS FOR REMOVAL AND REPAIRS

- If the units need to be removed for installation elsewhere or for repairs, please contact our Co. dealer or authorized maintenance shop technicians to do the job.
- In case of occurrence of abnormality (burning smell, for example), please stop the operations, disconnect the power and contact our Co. dealer or authorized maintenance shop.

INSTALLATION

INSTALLATION REQUIREMENTS

This room air conditioner is designed for installation in standard double-hung windows with actual opening widths from 23"to 37"(584 mm to 940 mm)(FIG. 1).

Lower sash must open sufficiently to allow a clear vertical opening of 14-1/2"(368mm).Side louvers and the rear of the air conditioner must have clear air space to allow enough airflow through the condenser for heat removal.The rear of the unit must be outdoors, not inside a building or garage.

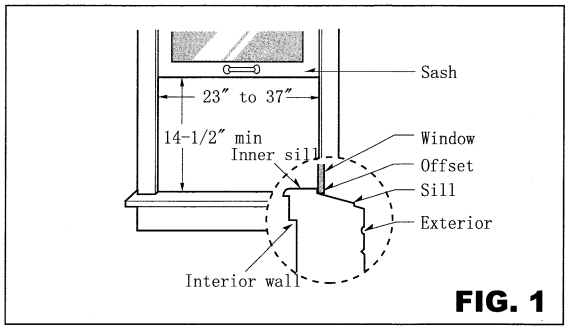


FIG. 1

INSTALLATION HARDWARE

Before doing the installation, please check to see if the installation accessories are complete(FIG.2). You must have the Phillips screwdriver tools available for installation.

ITEM	NAME OF PARTS	Q'TY
A	SHORT SCREWS	8
B	WOOD SCREWS	12
C	UPPER GUIDE	1
D	CURTAIN	2
E	CURTAIN LOCK	2
F	SASH LOCK	2
G	FOAM SEAL	2

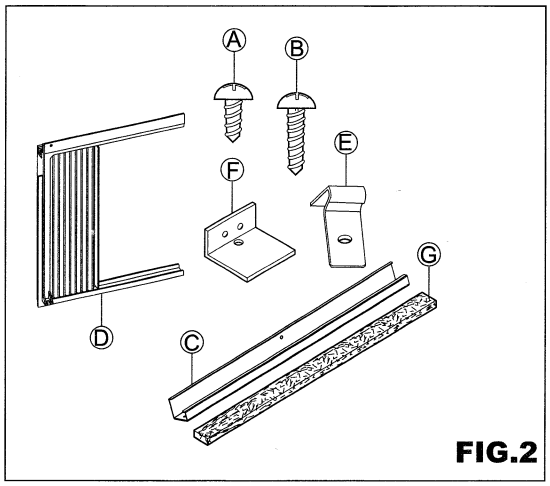


FIG.2

INSTALLATION POSITION

Pick a location which will allow you to blow the cold air into the area you want.Windows used for installation must be strong enough to support the weitht of the air conditioner.Good installation with special attention to the proper position of the unit will lessen the chance that service will be needed.

HOW TO INSTALL

1 UPPER GUIDE

- Remove the air conditioner and upper guide from the catron,place them on a flat surface.
- Align the hole in the upper guide with those in the top of the unit.
- Secure the upper guide to the unit with 3/8" short screws (ITEM A), as shown in FIG.3.

Note: When installed,be correct to place the higher side of the upper guide facing into the room side.

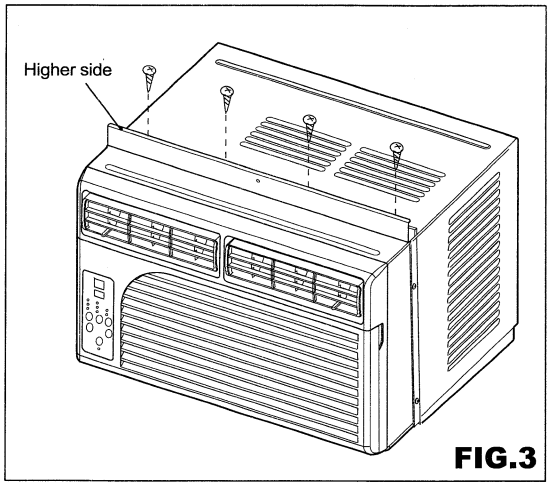


FIG.3

INSTALLATION

2 CURTAIN (WINDOW FILLER)

NOTE:Upper guide and curtain at each side are offset to provide the proper pitch to the rear of 5/16".This is necessary for proper condensed water utilization and drainage. If you are not using the curtain for any reason,this pitch to the rear must be maintained!

● Insert the side curtains into the upper and lower guides of the air conditioner. Fasten the curtains to the unit with screws (ITEM A), as shown in FIG.4) There is a left and a right crutain,be sure to use the proper curtain for each side.Hold the according curtain in one hand and gently pull back the center to free the open end. See FIG.4. (When installed the flange for securing the curtain into the window sill will be facing the room side.)

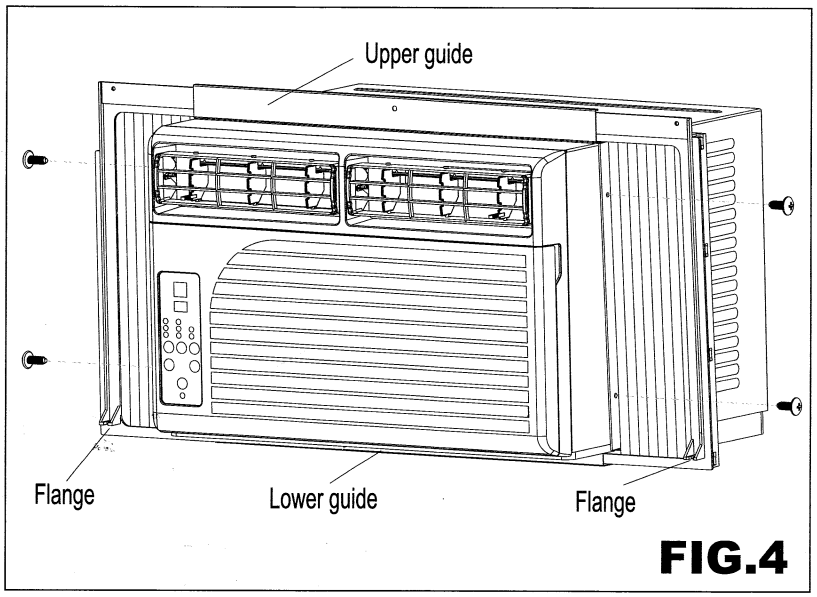


FIG.4

3 INSTALL THE AIR CONDITIONER IN THE WINDOW

●Carefully lift air conditioner and place the unit into the window opening so the bottom of the air conditioner frame is against the window sill.Carefully close the window behing the upper guide of the unit.

INSTALLATION

4 SECURE THE AIR CONDITIONER(FIG.5)

- Extend the curtain panels to fill the window opening.
- Place the curtain lock between the curtain extensions and the window sill ,drive locking screws through the lock and into the sill.
- Secure the left and right flanges on end bottom side of the panel with wood screws.
- Drive locking screws through upper frame holes into window sash.
- Attach the sash lock to the place between the upper and lower sashes and secure it with screws.
- Finally,cut the foam seal to the window width and stuff the sash seal between the glass and the window to prevent air and insects from getting into the room.

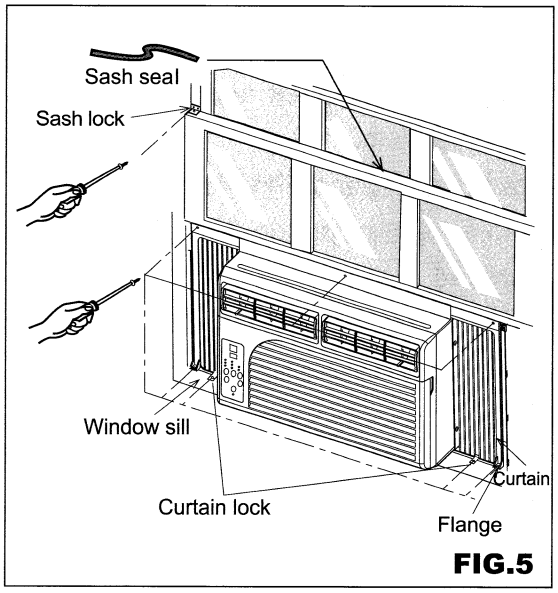


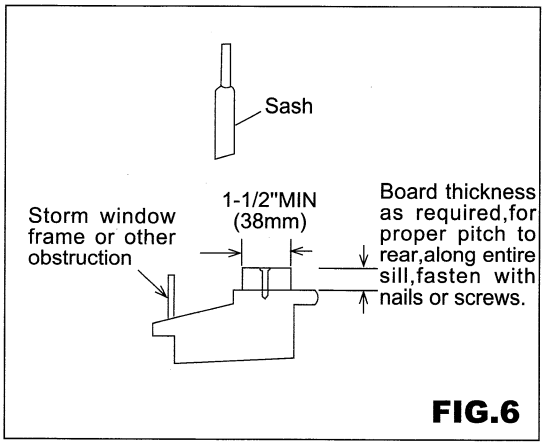
FIG.5

5 TEST RUNNING

- Connect to power source, check to see if the operational mode buttons work properly.
- Check to see if the room temperature control and the function controls work properly.
- Check if there are any abnormal sounds during operations.

IF AC IS BLOCKING BY STORM WINDOW

- Add woods as shown in FIG.6,or remove storm window before air conditioner is installed.
- If storm window frame must remain,be sure the drain holes or slots are not caulked or painted shut. Accumulated rain water or condensation must be allowed to drain out.


Sash
Storm window frame or other obstruction
1-1/2"MIN (38mm)
Board thickness as required,for proper pitch to rear,along entire sill,fasten with nails or screws.
FIG.6

INSTALLATION

REMOVAL FROM WINDOW

- Turn AC off,and disconnect power cord.
- Remove sash seal from between windows,and unscrew sash lock.
- Unscrew curtain lock and remove screws installed through curtain.
- Close curtain panels into frame.
- Keeping a firm grip on the air conditioner,raise the sash,and carefully tilt the air conditioner backward, draining any condensate water in the base of unit.Be careful not to spill any remaining water while lifting unit from window.
- Store parts with air conditioner.

CAUTION FOR DISMANTLING THE AIR CONDITIONER (It is just suitable for those models with fresh air function)

- If you purchase the models with fresh air function,while dismantling the air conditioner to repair the inner parts(such as condensator,evaporator ,copper pipe etc.),be sure to first remove the air-guide frame,pull upward the fresh air lever to make it disengage from its place(FIG. 7) ,and then continue the other diamantling work.

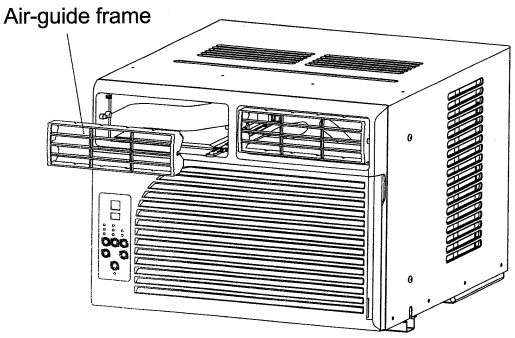
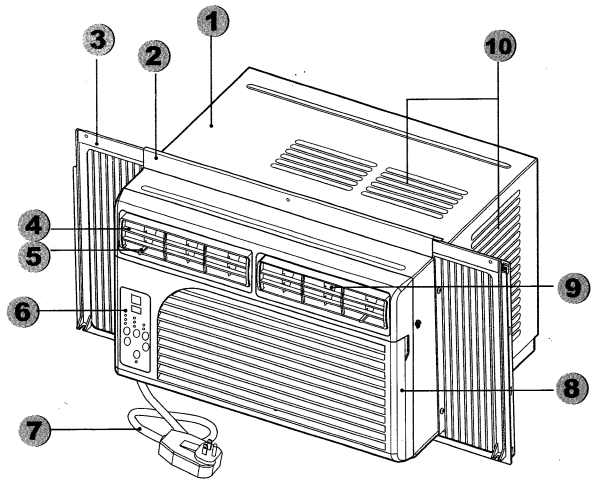


FIG.7

NAMES AND FUNCTIONS OF VARIOUS PARTS

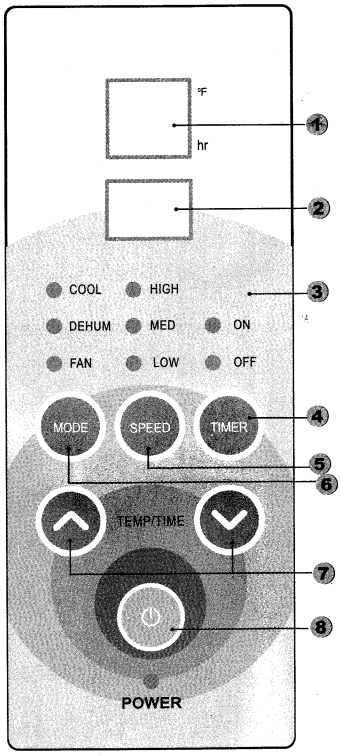
FEATURES



1. **Cabninet**
2. **Upper guide**
3. **Curtain(window filler)**
4. **Up/down air direction flap**
5. **Left/right air direction control tab**
6. **Operation panel**
7. **Power cord**
8. **Front grille**
9. **Left/right air directiion fin**
10. **Air inlet**

Features and appearance will vary,all the figures provide a demonstration to introduce the funtion. The followings are two types of operation panels, Please check to refer the instructions for the identical operation panel of your air-conditioner.

OPERATION PANEL



1 DIGITAL DISPLAY

When in COOL or DEHUM mode,Digital display shows setting temperature.
When in FAN mode,Digital display shows room temperature.
During in FAN mode,▲(+)/▼(-)button can be recognized but it doesn't mean any change in room temperature.
When in DEHUM mode,the setting temperature is fixed as 77°F, automatically.

2 REMOTE CONTROLLER SIGNAL RECEIVER

3 UNIT INDICATION SECTION

When selected the corresponding operation mode or fan speed,the light will be on.

4 TIMER button

If unit is running,Press this button will enter Switch-OFF mode;If unit is off(in standby mode),Press this button will enter Switch-ON mode.Press this button again will cancel the timer operation.Used together with▲or ▼ button to set the timer time.

5 SPEED button

Press this button to set air rate you want:HIGH,MED,LOW.

6 MODE button

Press this button,it advances the operation mode as follows:COOL-DEHUM(DEHUMIDIFICATION)-FAN.

7 TEMP/TIME button

In usual, press this button to adjust setting temperature within a range of 16℃(61°F) to 32℃(90°F).In timer time setting state(press timer button to enter),press▲ or▼ button to set the timer time within 1-24 hours.

8 ON/OFF button

To turn the air conditioner ON,press the button and the power indicator will light.To turn the air conditioner OFF,press the button again.

USE OF REMOTE CONTROLLER

REMOTE CONTROLLER

+ / - button
This button is for the increase or decrease of the timing settings and temperature settings, with a range of 1-24 hours for timing setting and 16-32°C (61-90°F)for temperature setting.

Signal transmission window

COOL button
Press this button to operate the machine in the cooling mode.

H · FAN button
Press this button to make the fans run in high speed. The HIGH indication light will be on .

DEHUM button
Press this button to operate the machine in the dehumidifying mode.

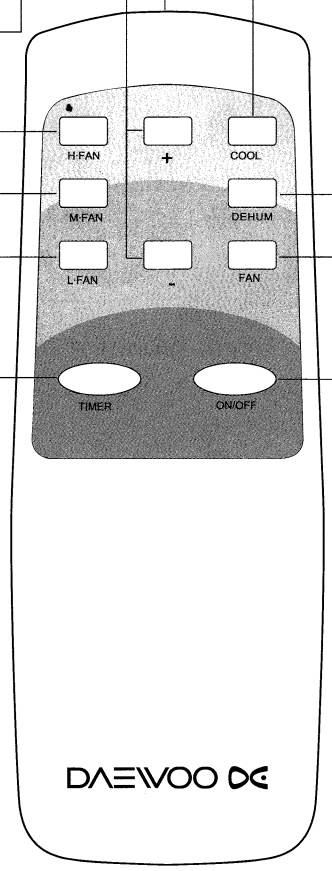
M · FAN button
Press this button to make the fans run in middle speed. The MED indication light will be on .

FAN button
Press this button to operate the machine in the ventilation mode.

L · FAN button
Press this button to make the fans run in low speed. The LOW indication light will be on .

ON/OFF button
Press this button to activate or stop the operation of the unit.

TIMER button
Press this button to set the time for timed switch-on, switch-off or to delete the timing.



⚠CAUTION

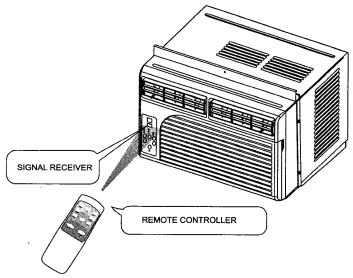
When in COOL or DEHUM mode, Digital display shows setting temperature.
When in FAN mode, Digital display shows room temperature.
During in FAN mode, ▲(+) / ▼(-) button can be recognized but it doesn't mean any change in room temperature.
When in DEHUM mode, the setting temperature is fixed as 77°F, automatically.

USE OF REMOTE CONTROLLER

METHOD OF TRANSMISSION

● Point the remote controller at the air conditioner as shown in the figure and press the button on the controller. The instruction signal will be transmitted to the air conditioner.

● Upon receiving the signal from the remote controller, the air conditioner unit will utter a "dee-" sound for acknowledgment.



POINTS OF ATTENTION IN USING THE REMOTE CONTROLLER

● Do not place the controller near something with high temperature like an electric heating bed cushion or a heating radiator;

● Do not place the controller at places directly exposed to the sunlight or strong lights;

● Avoid accidental dropping of the controller, which might cause damage to it;

● Do not place blocking objects between the air conditioner and the controller;

● Do not splash water or other liquids to the controller;

● Do not put heavy objects on the controller;

● If the air conditioner unit does not utter the acknowledging sound after proper signals are transmitted, it shows the batteries in the controller are exhausted and need replacing.

● If the remote controller is not functioning, replace the batteries and try once again.

REPLACEMENT OF BATTERIES

When the signal is transmitted but the air conditioner does not give an acknowledgment sound. It means the batteries are exhausted and need replacements.

1. Remove the battery case cover and take the used batteries out by sliding the cover open in the arrow direction.
2. Replace with new batteries and pay attention to the "+" and "-" marks of pole indications.
3. Close the back couer.

ADJUSTMENT OF AIR DIRECTION

Up/down adjustment:

Hold the up/down air flap at proper position by hand and move it upward or downward for adjustment.

Left/right adjustment:

Pulll forward/backward the horizontal air direction control tab to adjust the left/right air direction.

ADJUSTMENT OF AIR EXCHANGE

Note:This air exchange adjustment is just suitable for those models with fresh air function.

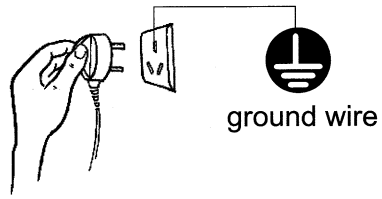
When you want to get fresh air,push the the fresh air switch(lever) backward by hand , the unit will discharge a little amount of the filthy air inside the room .And if the switch is pull forward,the fresh air function is closed.

METHODS OF MAINTENANCE

★Before doing the maintenance, make sure that the air conditioner is turned off and the plug is pulled out from the socket.

Before the operational seasons

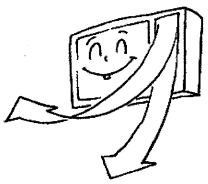
1. Check to see if there are any blocking objects around the air inlet and outlet of the indoor and outdoor units.
2. Check to see if the installation base is corroded or rusty.
3. Check if the grounding is properly made.



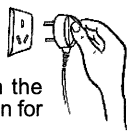
4. Check if the air filter screen is clean.
5. Connect to the power source
6. Load batteries in the remote controller. (remote controller model)

After the operational seasons

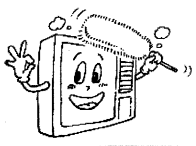
1. Set the temperature at 30°C(86°F) and let the machine run in cooling mode for half a day. Make the interior of the units dry.



2. Stop the operation of the machine and turn off the power switch.
   It is recommended to pull the plug from the power socket in the non-operational season for the sake of safety and saving energy.



3. Clean the air filter screen and install it back to place.
4. Clean the indoor unit and outdoor unit.



5. Take the batteries out from the remote controller.(remote controller model)

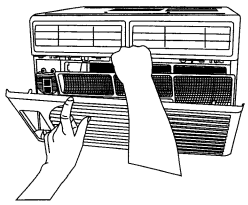
During the operational seasons

Clean the air filter screen (at a standard interval of once every two weeks).

1. Remove the air filter screen

   1) Gently hold and press the two lower ends of the front grille and open the grille.

   2) Gently grab the air filter screen and lift it up, and then take it out in the direction toward you.



2. Clean the air filter screen

   If the air filter screen is very dirty, you may use lukewarm water (about 30°C(86°F)) to clean it, and then air it dry.

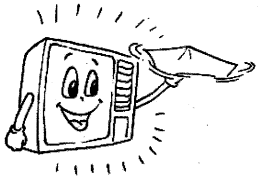
   ⚠CAUTION
   - Do not use boiling water to clean the screen.
   - Do not bake the screen dry.
   - Do not pull it with too much force.

3. Install the air filter screen.

   If the air conditioner is operated without an air filter screen, the interior of the unit will be contaminated by dirt which might cause performance failure or even damage of parts.

4. Clean the air conditioner

   - Use soft dry cloth to wipe the air conditioner or use a vacuum cleaner to do the cleaning.
   - If the air conditioner is very dirty, you may use a piece of cloth soaked with household neutral detergent to do the cleaning.



⚠CAUTION

If the air filter screen is blocked by dust, the performance of cooling and heating operations will be affected, the operational noise will be larger and the power consumption will be increased. Therefore, periodic cleaning of the air filter screen is necessary.

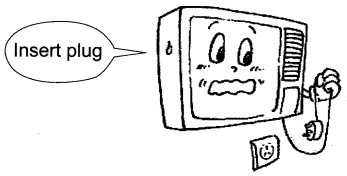
DIAGNOSIS ON PHENOMENA AND TREATMENTS

Inspection and treatment prior to maintenance

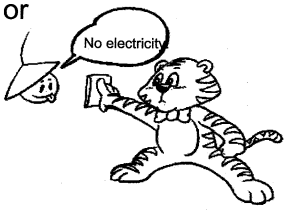
Please check the following items before asking our Co. dealer or authorized maintenance shop for after-sale services:

The air conditioner does not work at all.

Is the power plug inserted into the socket properly?



Is there a power failure or is the fuse blown?



Is the timer set for the "TIMER-ON" mode?

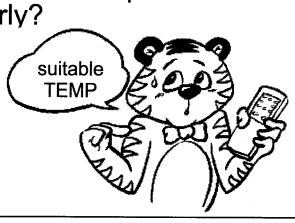
If the air conditioner is set for timed switch-on operation mode, it will not start operating before the set time is reached.

Is the ambient temperature lower than 16°C or 61°F?

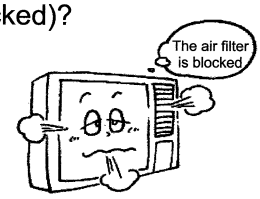
If so, the auto protection function of the air conditioner will prevent the unit from cooling operation.

There is no sufficient cooling or heating.

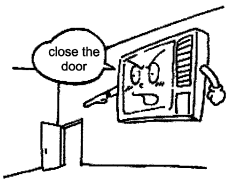
Is the room temperature set properly?



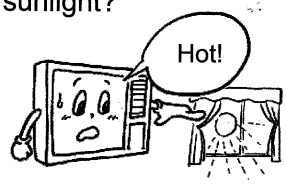
Is the air filter screen clean (not blocked)?



Are the doors or windows opened?

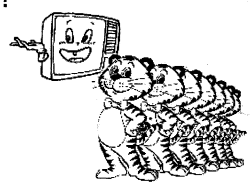


Is the room directly exposed to sunlight?



Are there any heating sources inside the room?

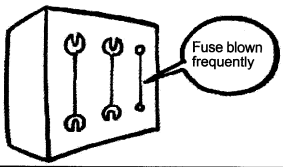
Are there many people inside the room?



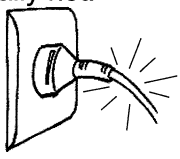
Note: If the air conditioner remains abnormal in operation after the above checks and inspection, please disconnect the power and contact the our Co. dealer or the authorized maintenance shop.

In any of the following cases, please turn off the power of the air conditioner and immediately contact the dealer or the authorized maintenance shop:

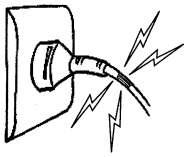
The fuse is frequently blown or the breaker is often off.



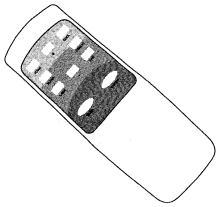
The electric wire turns abnormally hot.



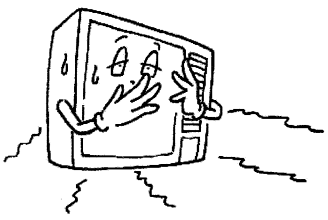
The insulation sheath of the power cable is torn.



The switches do not work.

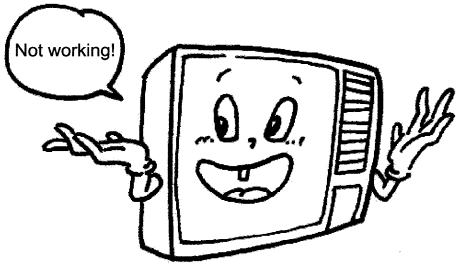
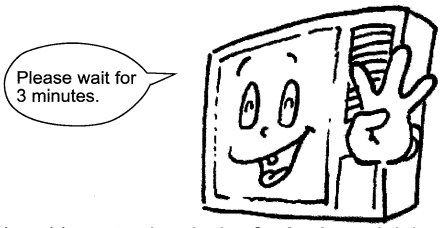
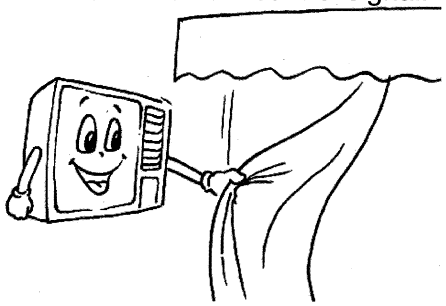


There are abnormal noises when the machine is operating.



DIAGNOSIS ON PHENOMENA AND TREATMENTS

The following phenomena occurring during the operation do not mean faults of the machine. You may use the air conditioner with peace of mind.

Phenomena	Diagnosis
The air conditioner cannot be started for operation after it is turned off. 	Start the operation after 3 minutes. This is to protect the air conditioner.  The microchip protection device for 3 minutes' delay performs its function. When the machine is powered for the first time, this function does not work.
Fog is blown out during the cooling operation.	When the indoor temperature and humidity is high, such phenomena might occur. When the indoor temperature and humidity drops, the fog will disappear.
There is odd smell of the delivered air.	It might be the smell of cigarette smoke or other things inside the air conditioner.
There is "squeezing" sound.	It might be caused by the cycling of the refrigerant inside the air conditioner.
There is "patting" sound.	It might be caused by the heat expansion of contraction of the plastic parts.
The operation cannot be resumed even the power is turned on after the power switch is turned off or after the power supply is off. (remote control model)	The memory of the microchip computer is deleted. Operate the remote controller to re-start the operation. (remote control model)
No remote control signal is received.	When the signal receiver on the air conditioner is exposed to sunlight or strong lights, it might fail to receive the remote control signal.  Shade off the sunlight or fade the lighting in this case.
There is moisture at the air outlet grids.	If the air conditioner operates in high humidity for long time, moisture may be condensed at the grids and become water drops.

Limited Warranty

DAEWOO

DAEWOO ELECTRONICS AMERICA, INC. warrants the following window room air-conditioner to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part (at the Company's option) in exchange for any part of any unit of its manufacture which under normal installation, use and service disclosed such defect, provided the unit is delivered by the owner to store or dealer where purchased or Daewoo authorized service center. To establish and receive warranty service at our store, dealer or our authorized service center, a sales receipt or bill of sales is required for proof of purchase.

This warranty does not extend to any of our electronic products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, unauthorized modification, or to use in violation of instructions furnished by us, nor units which have been repaired or altered outside of our factory, nor to cases where the serial number thereof has been removed, defaced, or changed.

This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sales of our electronic products.

Over the counter exchange for units that are initially defective. Initial defective is described as when the dealer opens the unit and finds that it is inoperative or an individual customer opening a new unit and finding that it is initially defective. This unit may be returned to the factory by the dealer for exchange. Under no circumstances will an individual customer be permitted to return defective unit directly to factory. Exchange must be directly with the dealer. When this unit is returned to dealer, a copy of the purchase evidence stating the date of purchase is to be put in the individual box for dealer's further control with the factory.

MODEL	PARTS	LABOR	COMPRESSOR
DWC-F0520RLE	1 year	1 year	5 years

Note: The warranty service center list is constantly changing with the addition of our current qualified service centers. If there is inadequate or no local service facility, subject individual customer will call DAEWOO on the toll free number **1-877-DWESV3(1-877-393-7823)** **www.e-daewoo.com** to be provided with further informations.